TO6T90" TOS26860

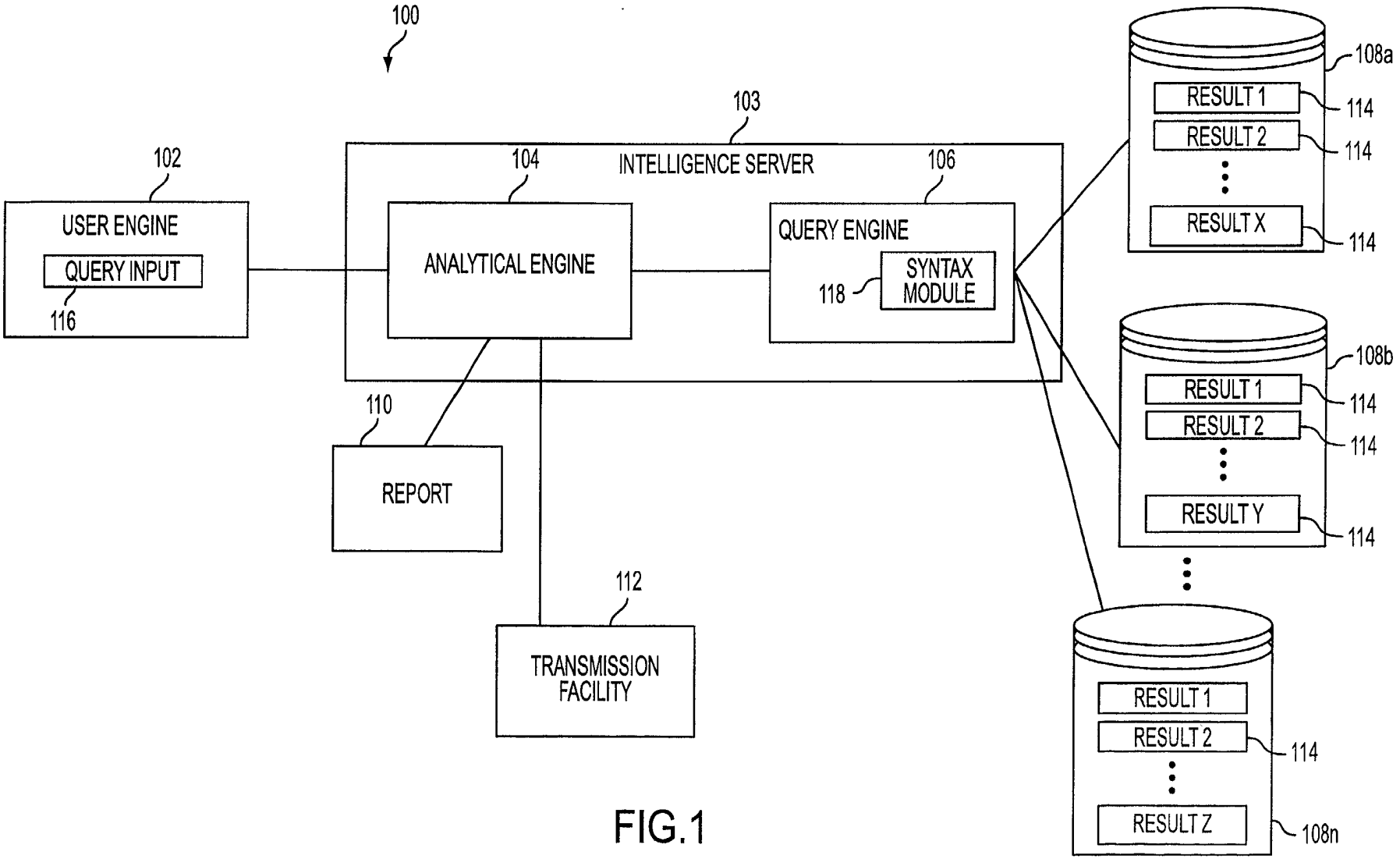

FIG.1

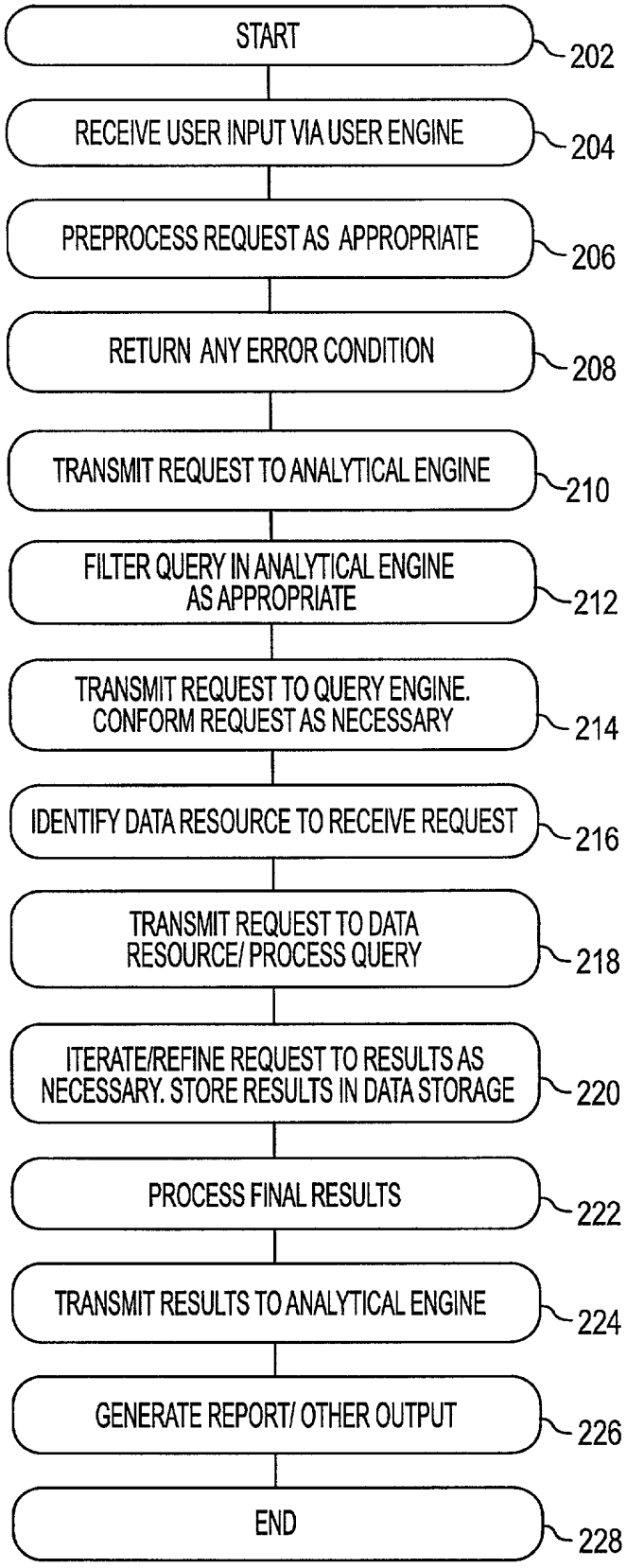
START
202
RECEIVE USER INPUT VIA USER ENGINE
204
PREPROCESS REQUEST AS APPROPRIATE
206
RETURN ANY ERROR CONDITION
208
TRANSMIT REQUEST TO ANALYTICAL ENGINE
210
FILTER QUERY IN ANALYTICAL ENGINE AS APPROPRIATE
212
TRANSMIT REQUEST TO QUERY ENGINE. CONFORM REQUEST AS NECESSARY
214
IDENTIFY DATA RESOURCE TO RECEIVE REQUEST
216
TRANSMIT REQUEST TO DATA RESOURCE/ PROCESS QUERY
218
ITERATE/REFINE REQUEST TO RESULTS AS NECESSARY. STORE RESULTS IN DATA STORAGE
220
PROCESS FINAL RESULTS
222
TRANSMIT RESULTS TO ANALYTICAL ENGINE
224
GENERATE REPORT/ OTHER OUTPUT
226
END
228

FIG. 2

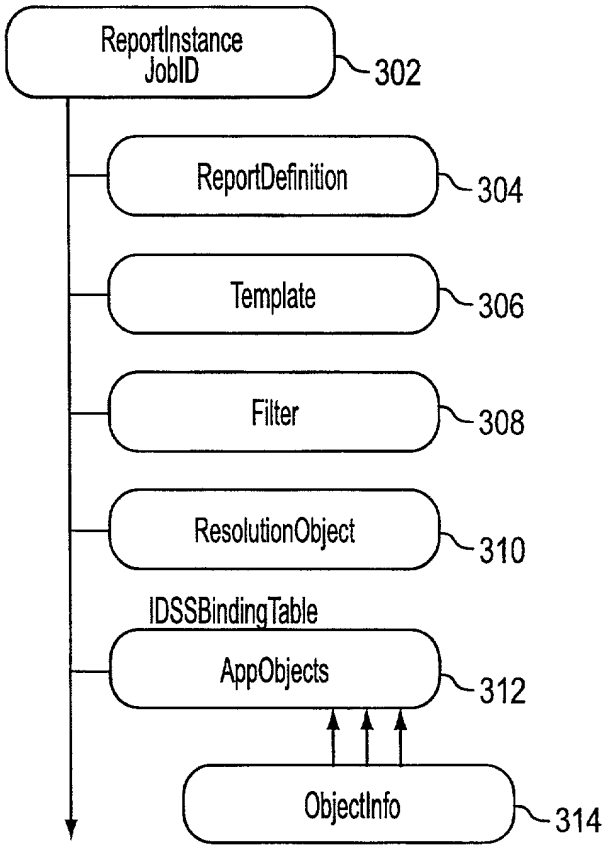
ReportInstance
JobID
302
ReportDefinition
304
Template
306
Filter
308
ResolutionObject
310
IDSSBindingTable
AppObjects
312
ObjectInfo
314

FIG. 3

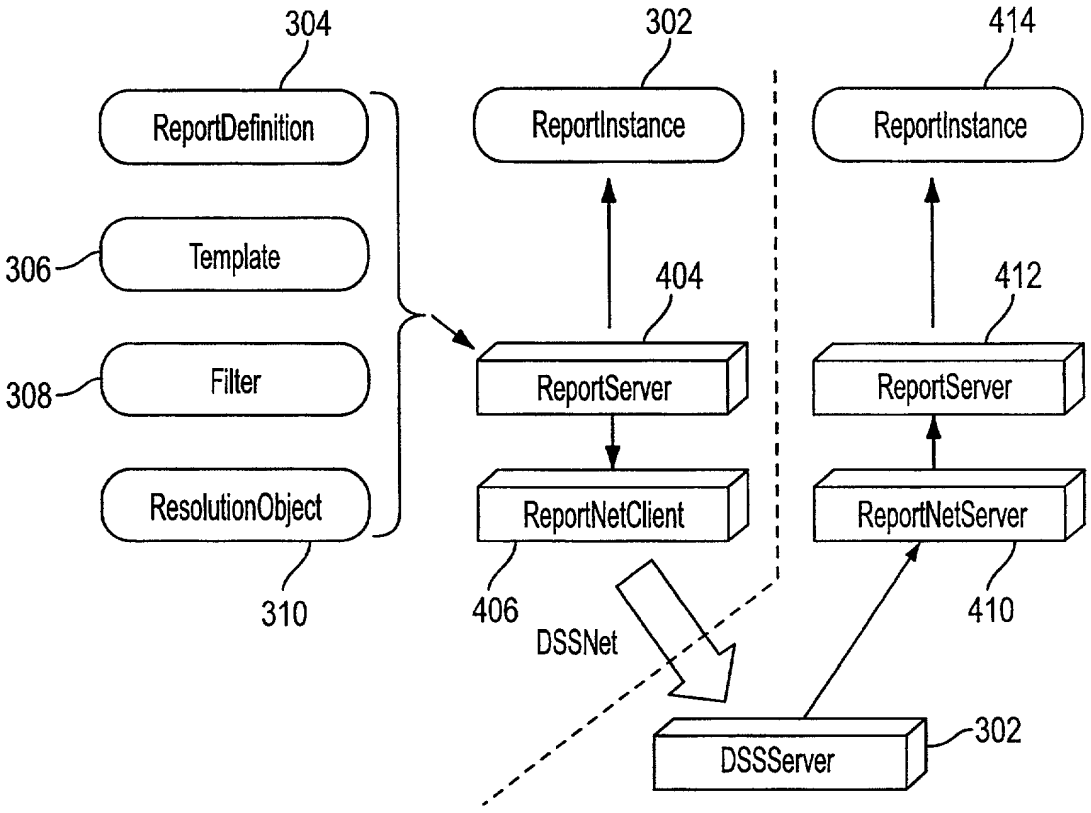
304
302
414
ReportDefinition
ReportInstance
ReportInstance
306
Template
404
412
308
Filter
ReportServer
ReportServer
ReportNetClient
ReportNetServer
ResolutionObject
406
410
310
DSSNet
302
DSSServer

FIG. 4

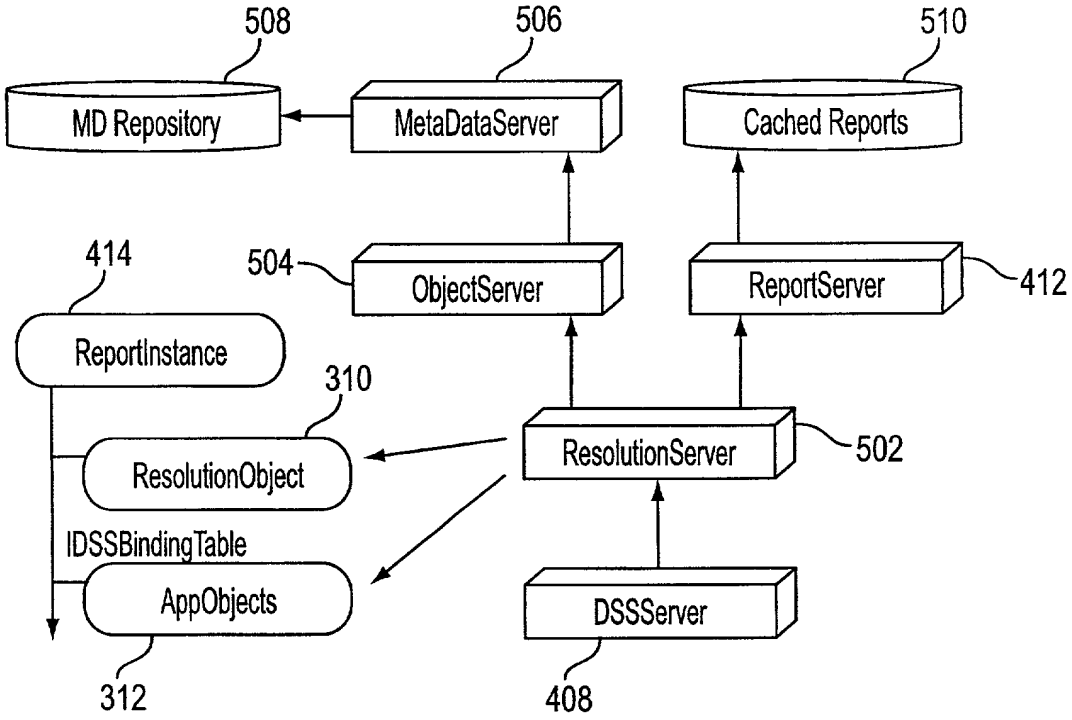
508
506
510
MD Repository
MetaDataServer
Cached Reports
414
504
ObjectServer
ReportServer
412
ReportInstance
310
ResolutionObject
ResolutionServer
502
IDSSBindingTable
AppObjects
DSSServer
312
408

FIG. 5

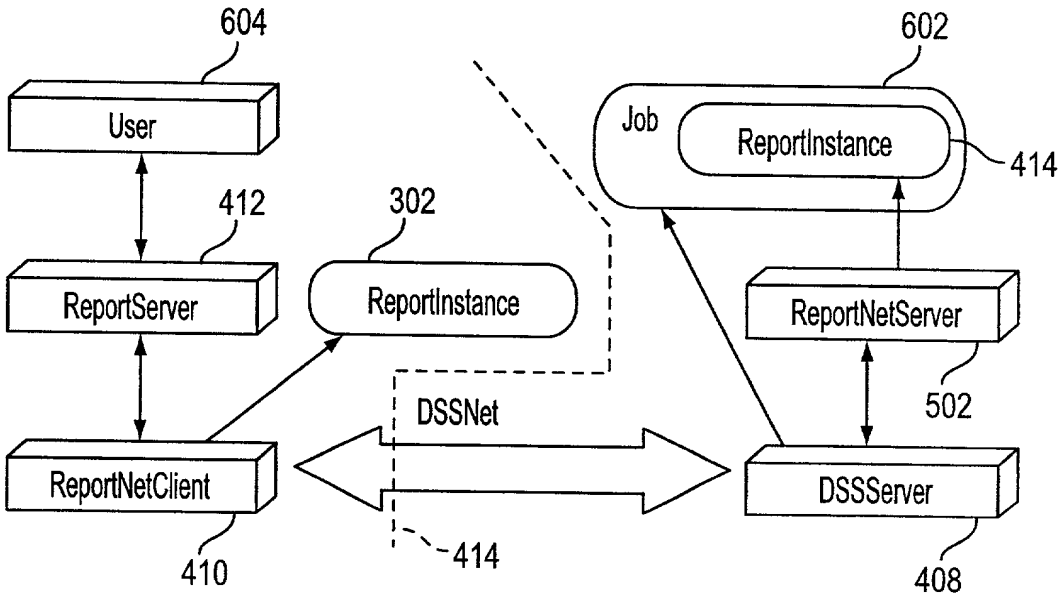
604
User
412
ReportServer
ReportNetClient
410
302
ReportInstance
DSSNet
414
602
Job
ReportInstance
414
ReportNetServer
502
DSSServer
408

FIG. 6

FROM RESOLUTION OBJECT		
FROM PROMPT INSTANCE		
PROMPT OBJECT		
TYPE DEFAULT PROPERTIES VALIDATION PROPERTIES PROMPT PROPERTIES IMPORTS PROPERTIES IMPORTABLE TITLE, MEANING REUSE	MERGE INDEX ExportToPrompt IMPORTS OVERRIDES THESE PROPERTIES TITLE, MEANING, REUSE DEFAULT	ANSWER PREVIOUS, HASPREVIOUS LOCATIONS CLOSED USED INCOMPLETE, LOCKED OVERRIDES THESE PROPERTIES VALIDATION PROPERTIES

FIG. 7

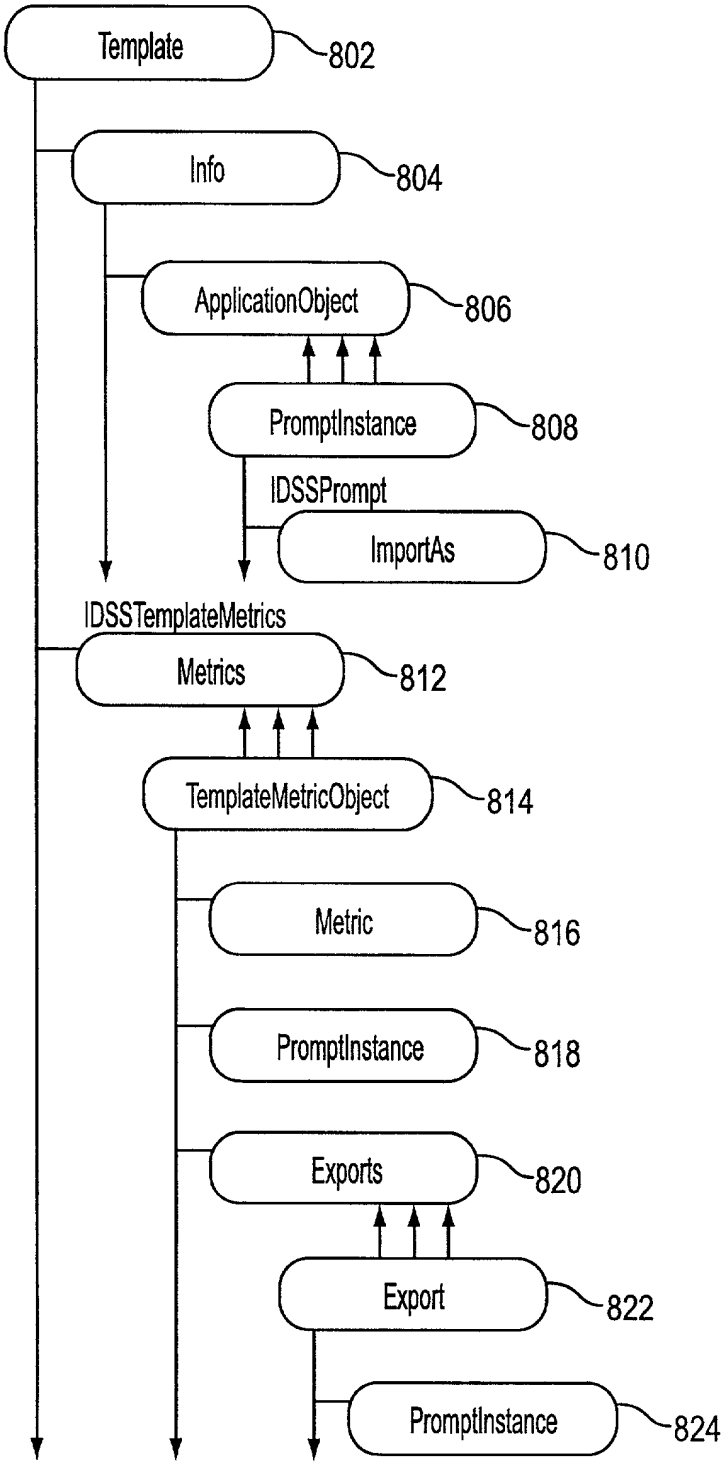
Template
802
Info
804
ApplicationObject
806
PromptInstance
808
IDSSPrompt
ImportAs
810
IDSSTemplateMetrics
Metrics
812
TemplateMetricObject
814
Metric
816
PromptInstance
818
Exports
820
Export
822
PromptInstance
824

FIG. 8

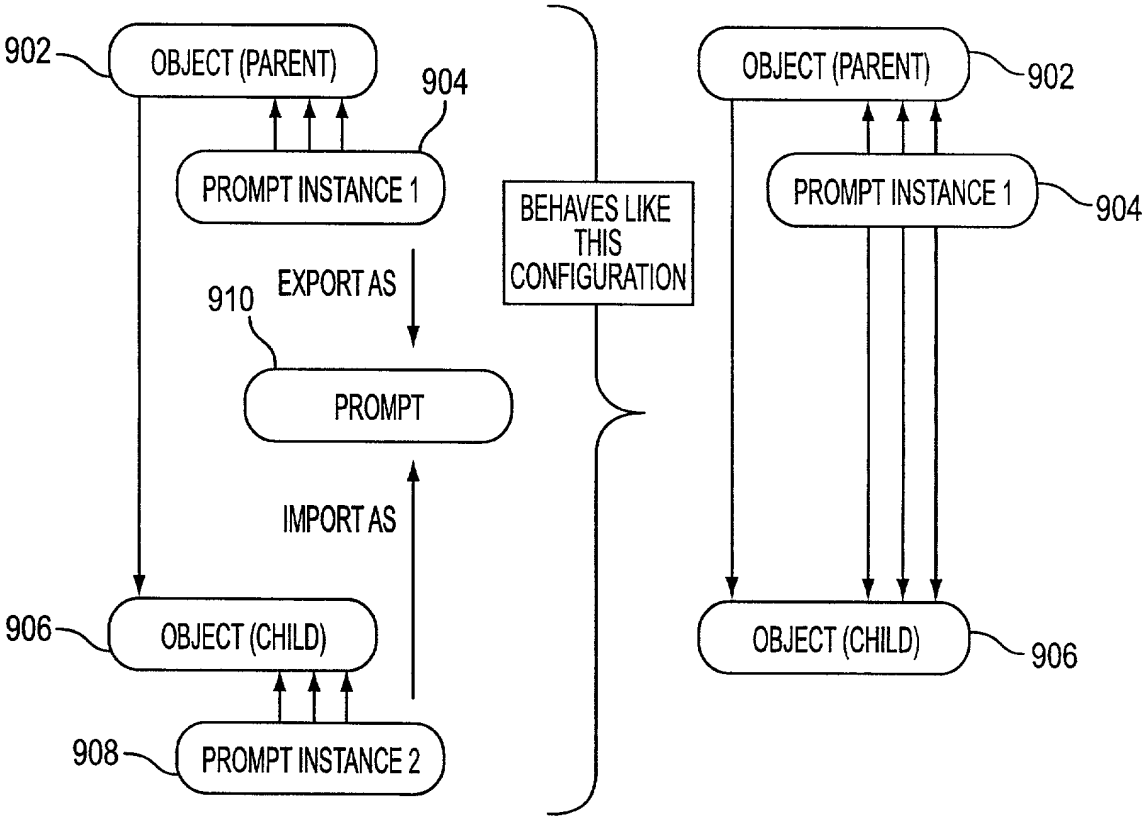
902
OBJECT (PARENT)
904
PROMPT INSTANCE 1
910
EXPORT AS
PROMPT
IMPORT AS
906
OBJECT (CHILD)
908
PROMPT INSTANCE 2
BEHAVES LIKE THIS CONFIGURATION
OBJECT (PARENT)
902
PROMPT INSTANCE 1
904
OBJECT (CHILD)
906

FIG. 9

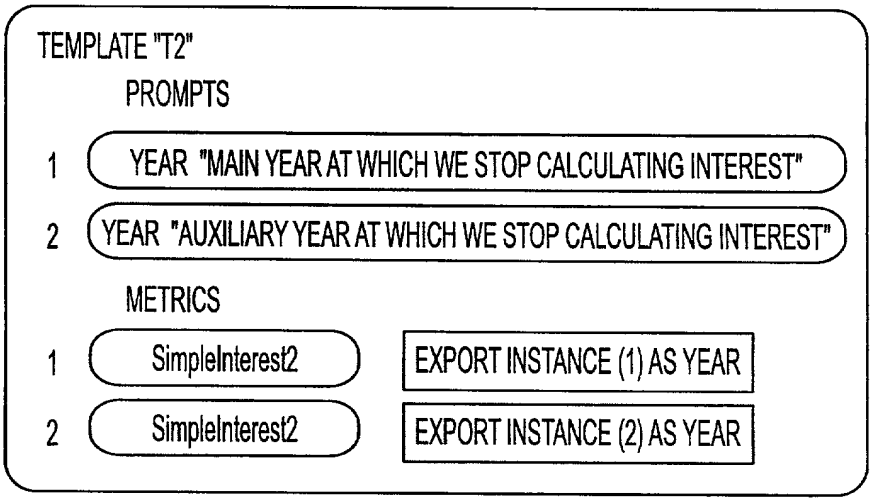
TEMPLATE "T2"
PROMPTS
1
YEAR "MAIN YEAR AT WHICH WE STOP CALCULATING INTEREST"
2
YEAR "AUXILIARY YEAR AT WHICH WE STOP CALCULATING INTEREST"
METRICS
1
SimpleInterest2
EXPORT INSTANCE (1) AS YEAR
2
SimpleInterest2
EXPORT INSTANCE (2) AS YEAR

FIG. 10

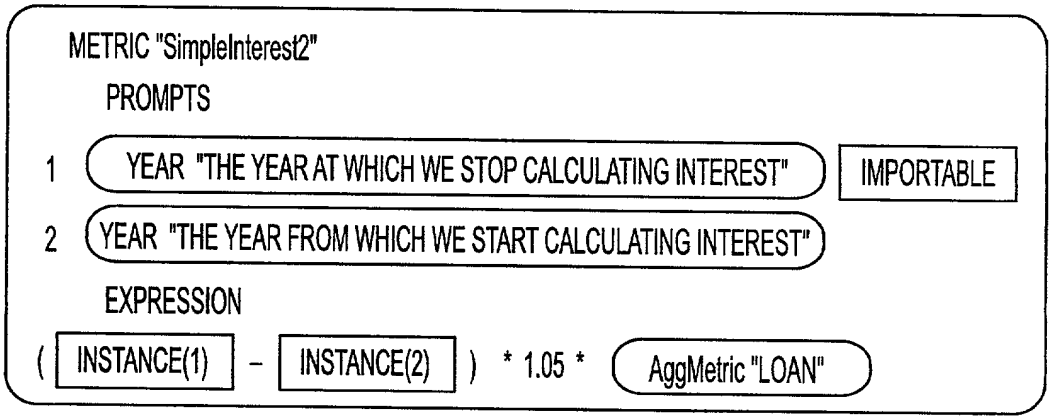
METRIC "SimpleInterest2"
PROMPTS
1
YEAR "THE YEAR AT WHICH WE STOP CALCULATING INTEREST"
IMPORTABLE
2
YEAR "THE YEAR FROM WHICH WE START CALCULATING INTEREST"
EXPRESSION
(
INSTANCE(1)
-
INSTANCE(2)
) * 1.05 *
AggMetric "LOAN"

FIG. 11A

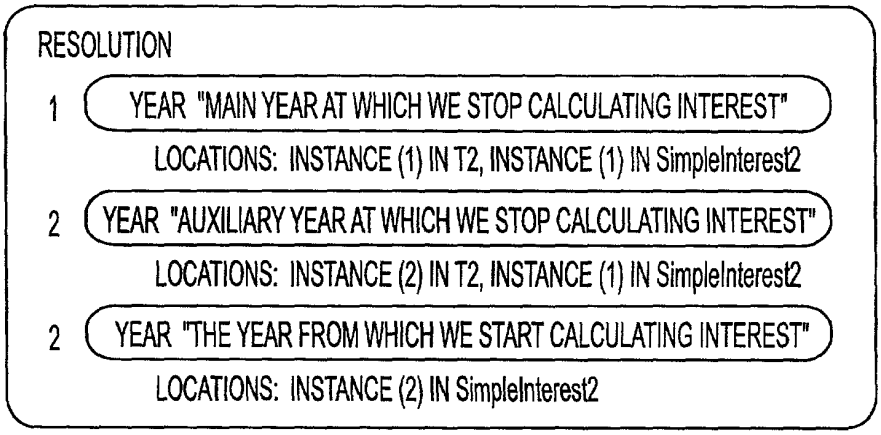

FIG. 11B

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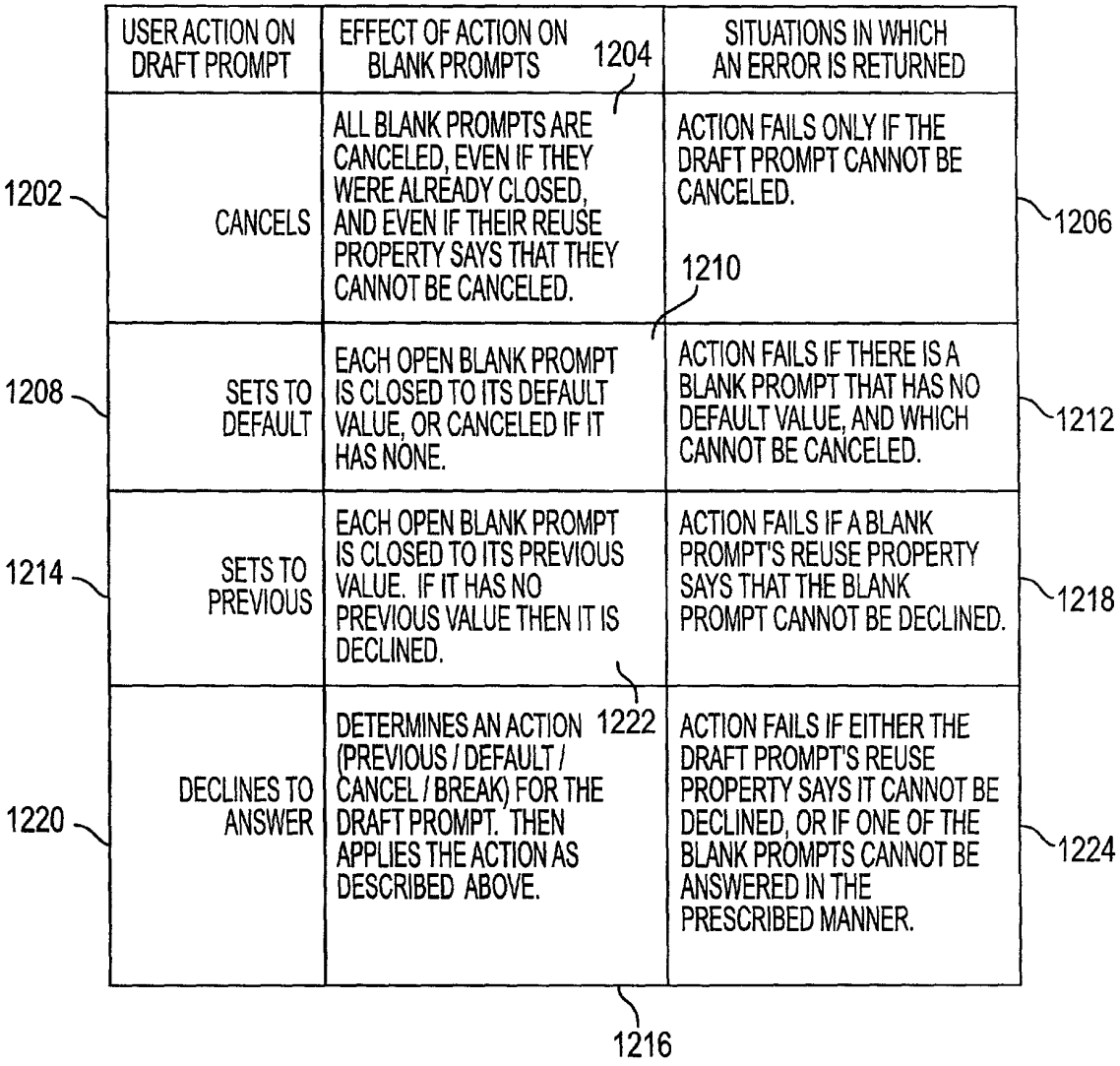
USER ACTION ON DRAFT PROMPT
EFFECT OF ACTION ON BLANK PROMPTS
1204
SITUATIONS IN WHICH AN ERROR IS RETURNED
1202
CANCELS
ALL BLANK PROMPTS ARE CANCELED, EVEN IF THEY WERE ALREADY CLOSED, AND EVEN IF THEIR REUSE PROPERTY SAYS THAT THEY CANNOT BE CANCELED.
ACTION FAILS ONLY IF THE DRAFT PROMPT CANNOT BE CANCELED.
1206
1210
1208
SETS TO DEFAULT
EACH OPEN BLANK PROMPT IS CLOSED TO ITS DEFAULT VALUE, OR CANCELED IF IT HAS NONE.
ACTION FAILS IF THERE IS A BLANK PROMPT THAT HAS NO DEFAULT VALUE, AND WHICH CANNOT BE CANCELED.
1212
1214
SETS TO PREVIOUS
EACH OPEN BLANK PROMPT IS CLOSED TO ITS PREVIOUS VALUE. IF IT HAS NO PREVIOUS VALUE THEN IT IS DECLINED.
ACTION FAILS IF A BLANK PROMPT'S REUSE PROPERTY SAYS THAT THE BLANK PROMPT CANNOT BE DECLINED.
1218
1222
1220
DECLINES TO ANSWER
DETERMINES AN ACTION (PREVIOUS / DEFAULT / CANCEL / BREAK) FOR THE DRAFT PROMPT. THEN APPLIES THE ACTION AS DESCRIBED ABOVE.
ACTION FAILS IF EITHER THE DRAFT PROMPT'S REUSE PROPERTY SAYS IT CANNOT BE DECLINED, OR IF ONE OF THE BLANK PROMPTS CANNOT BE ANSWERED IN THE PRESCRIBED MANNER.
1224
1216

FIG. 12

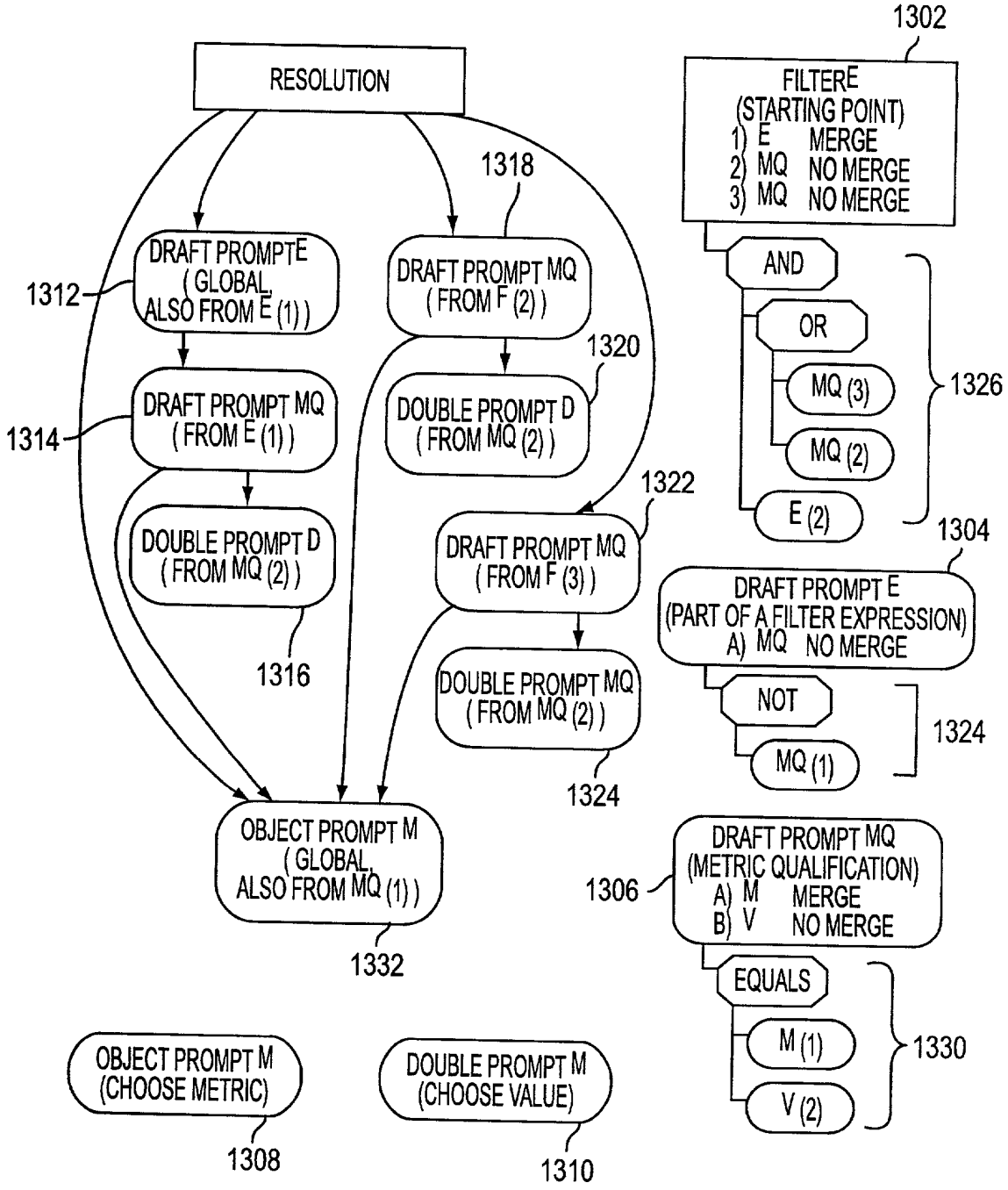
RESOLUTION
1302
FILTER E
(STARTING POINT)
1) E MERGE
2) MQ NO MERGE
3) MQ NO MERGE
AND
OR
MQ (3)
MQ (2)
E (2)
1326
1304
DRAFT PROMPT E
(PART OF A FILTER EXPRESSION)
A) MQ NO MERGE
NOT
MQ (1)
1324
1318
DRAFT PROMPT E
(GLOBAL,
ALSO FROM E (1))
1312
DRAFT PROMPT MQ
(FROM F (2))
1320
DOUBLE PROMPT D
(FROM MQ (2))
DRAFT PROMPT MQ
(FROM E (1))
1314
DOUBLE PROMPT D
(FROM MQ (2))
1316
1322
DRAFT PROMPT MQ
(FROM F (3))
DOUBLE PROMPT MQ
(FROM MQ (2))
1324
OBJECT PROMPT M
(GLOBAL,
ALSO FROM MQ (1))
1332
DRAFT PROMPT MQ
(METRIC QUALIFICATION)
A) M MERGE
B) V NO MERGE
1306
EQUALS
M (1)
V (2)
1330
OBJECT PROMPT M
(CHOOSE METRIC)
1308
DOUBLE PROMPT M
(CHOOSE VALUE)
1310

FIG. 13

NAME	ANSWER	MINIMUM	MAXIMUM	ORIGIN	RESTRICTION
DSSPromptBoolean	TRUE OR FALSE	EMPTY	EMPTY	EMPTY	EMPTY
DSSPromptLong	LONG	LONG	LONG	EMPTY	EMPTY
DSSPromptString	STRING	LONG	LONG	EMPTY	EMPTY
DSSPromptDouble	DOUBLE	DOUBLE	DOUBLE	EMPTY	EMPTY
DSSPromptDate					
DSSPromptObjects	OBJECT INFO OR FOLDER	LONG	LONG	EMPTY	SEARCH
DSSPromptElements	ELEMENTS OR ELEMENT	LONG	LONG	DIMENSION OR ATTRIBUTE	ATTRIBUTE OR FILTER
DSSPromptExpression	EXPRESSION	LONG	LONG	EMPTY	EXPRESSION TYPE
DSSPromptExpressionDraft	EXPRESSION	EMPTY	EMPTY	EXPRESSION	EMPTY

FIG. 14

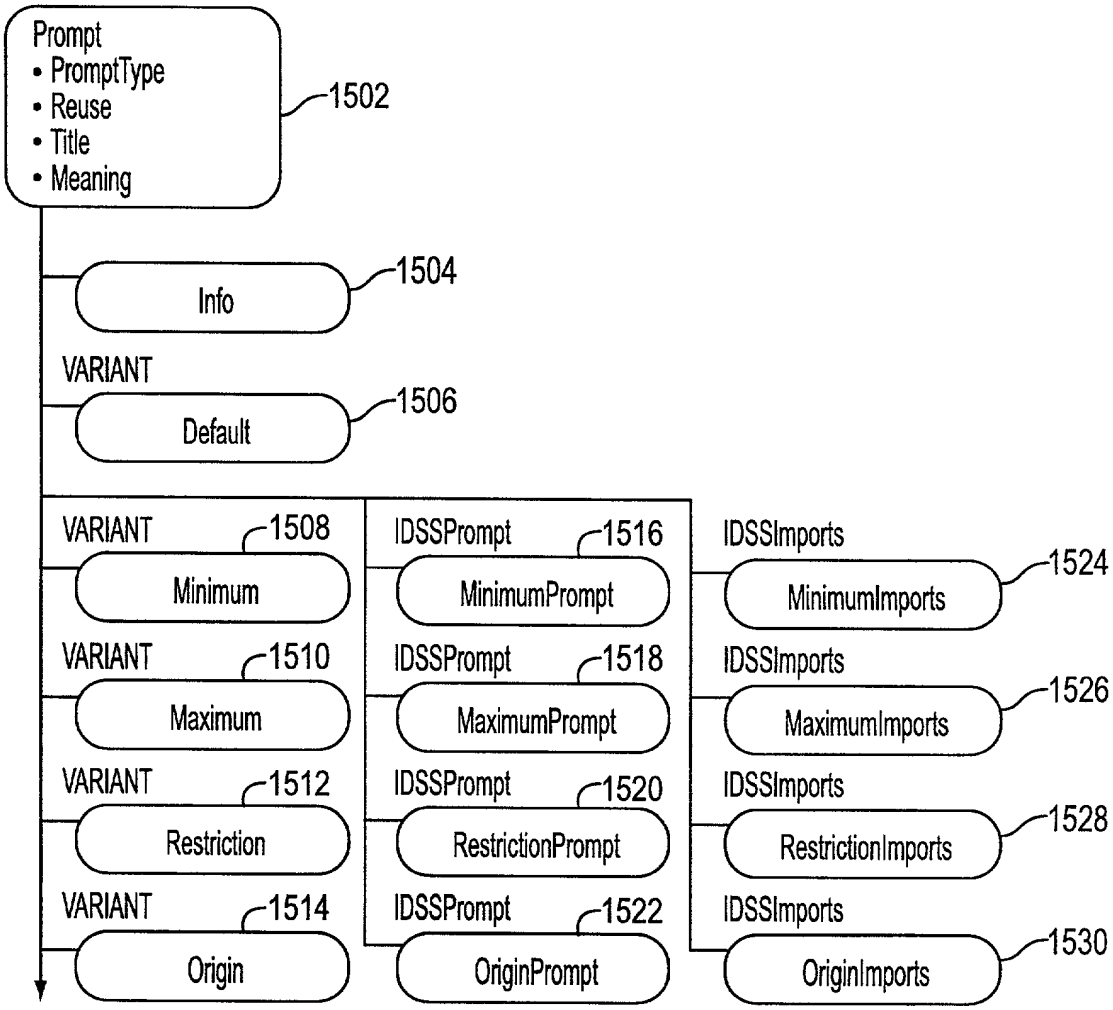
Prompt
• PromptType
• Reuse
• Title
• Meaning
1502
Info
1504
VARIANT
Default
1506
VARIANT
1508
Minimum
IDSSPrompt
1516
MinimumPrompt
IDSSImports
MinimumImports
1524
VARIANT
1510
Maximum
IDSSPrompt
1518
MaximumPrompt
IDSSImports
MaximumImports
1526
VARIANT
1512
Restriction
IDSSPrompt
1520
RestrictionPrompt
IDSSImports
RestrictionImports
1528
VARIANT
1514
Origin
IDSSPrompt
1522
OriginPrompt
IDSSImports
OriginImports
1530

FIG.15

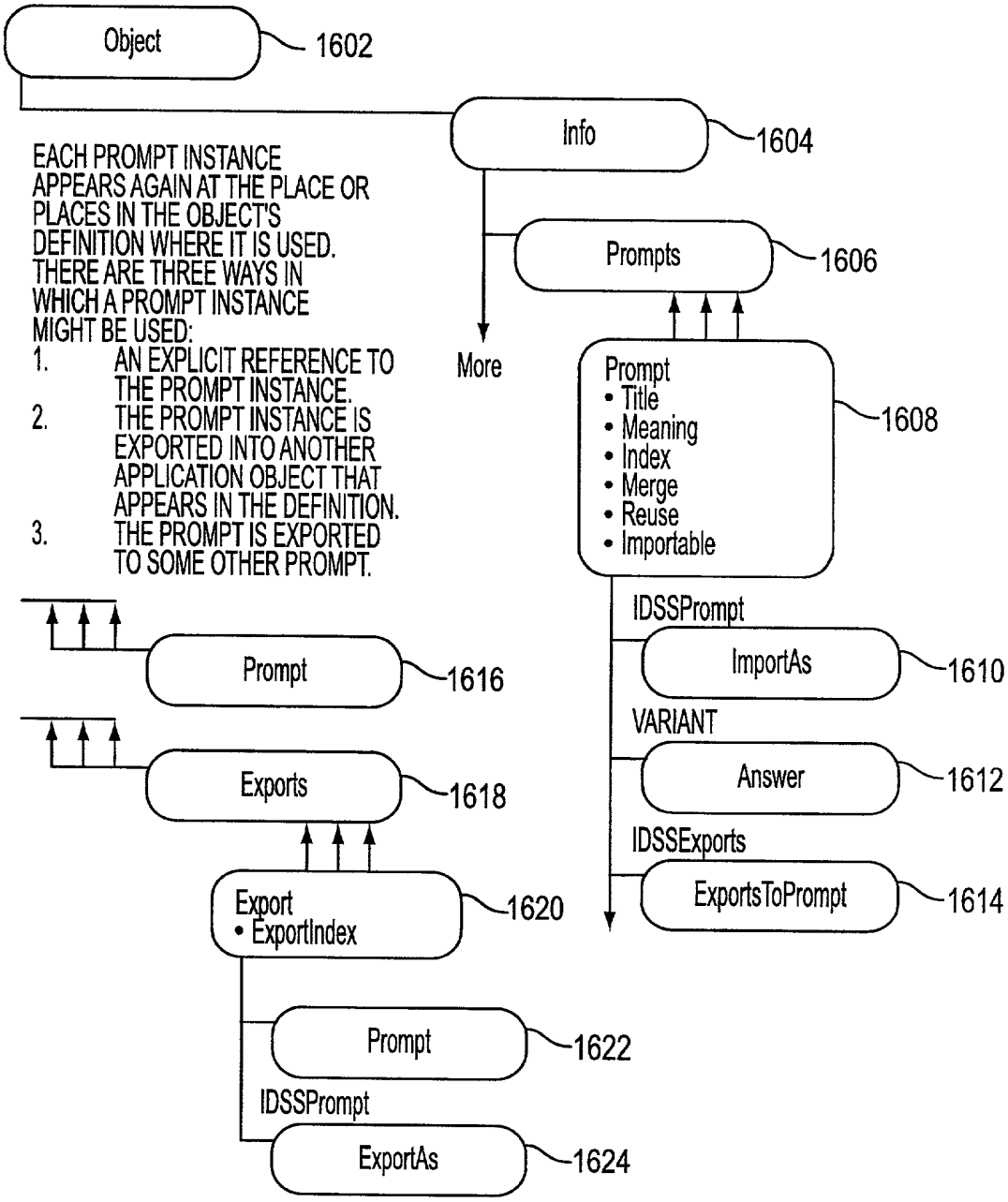
Object
1602
Info
1604
EACH PROMPT INSTANCE APPEARS AGAIN AT THE PLACE OR PLACES IN THE OBJECT'S DEFINITION WHERE IT IS USED. THERE ARE THREE WAYS IN WHICH A PROMPT INSTANCE MIGHT BE USED:
1. AN EXPLICIT REFERENCE TO THE PROMPT INSTANCE.
2. THE PROMPT INSTANCE IS EXPORTED INTO ANOTHER APPLICATION OBJECT THAT APPEARS IN THE DEFINITION.
3. THE PROMPT IS EXPORTED TO SOME OTHER PROMPT.
Prompts
1606
More
Prompt
• Title
• Meaning
• Index
• Merge
• Reuse
• Importable
1608
IDSSPrompt
ImportAs
1610
VARIANT
Answer
1612
IDSSExports
ExportsToPrompt
1614
Prompt
1616
Exports
1618
Export
• ExportIndex
1620
Prompt
1622
IDSSPrompt
ExportAs
1624

FIG. 16

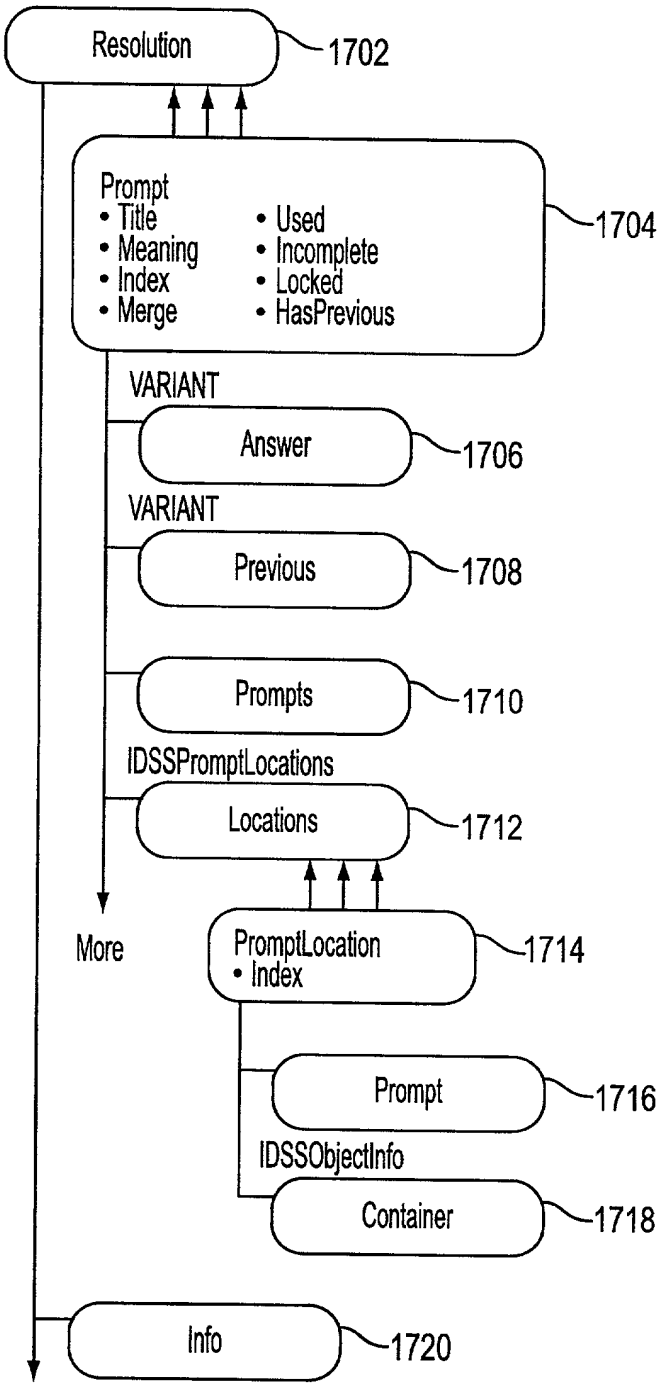
Resolution
1702
Prompt
• Title
• Meaning
• Index
• Merge
• Used
• Incomplete
• Locked
• HasPrevious
1704
VARIANT
Answer
1706
VARIANT
Previous
1708
Prompts
1710
IDSSPromptLocations
Locations
1712
More
PromptLocation
• Index
1714
Prompt
1716
IDSSObjectInfo
Container
1718
Info
1720

FIG. 17